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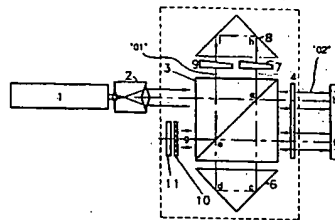
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(54) DEVICE AND METHOD FOR MEASURING DISTANCE USING MULTI-PASS OF SINGLE WAVE LASER BEAM

(57) Abstract:

PURPOSE: A device and a method for measuring a distance using multi-pass of single wave laser beam are provided to have an excellent resolution, to reduce a cost and to reduce error in measuring the distance according to a change of light intensity.



CONSTITUTION: A device for measuring a distance using multi-pass of single wave laser beam includes a light source (1) generating single wave beam, a beam splitter(3) mounted at a side of the light source for dividing the single wave beam into a measuring beam(01) and a reference beam(02), a reflecting unit fixed on a movable body for returning the measuring beam, a re-reflecting unit for reflecting again the returned beam to the reflecting unit, a refracting unit mounted on the other side of the beam splitter for refracting and returning the reference beam at a prescribed angle, a beam-collecting unit mounted on the beam splitter for detecting an interference pattern generated by the measuring beam and the reference beam united together.

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